

MK - FERGUSON GROUP

WELDON SPRING SITE REMEDIAL ACTION PROJECT 7295 HIGHWAY 94 SOUTH ST. CHARLES, MISSOURI U.S.A. 63304 PHONE: (636) 441-6086

APRIL 0.7 2000

U. S. Department of Energy
Weldon Spring Site
Remedial Action Project
ATTN: Mr. Stephen H. McCracken
Project Manager
7295 Highway 94 South
St. Charles, MO 63304

SUBJECT:

Contract No. DE-AC05-860R21548

TRANSMITTAL OF THE POST REMEDIAL ACTION REPORT

FOR VICINITY PROPERTY MDC-6

Dear Mr. McCracken:

Attached is a copy of the Post Remedial Action Report for Vicinity Property MDC-6 entitled Confirmation Results for Vicinity Property MDC-6 (RU12/CU141) dated May 6, 1999. This report was written in an IOC format due to the extremely small area comprising Remedial Unit 12, which required only two samples. Please forward copies of this IOC to ORISE, ANL, the EPA, and the MDNR.

If you have any questions or need further information, please call Melissa Lutz at extension 3544.

Sincerely,

Douglas E Steffen Project Director

DES/ml/lac

Enclosure: as stated

cc: Pamela Thompson

INTER-OFFICE CORRESPONDENCE

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DATE:

May 6, 1999

TO:

Distribution

FROM:

Melissa Lutz

SUBJECT:

CONFIRMATION RESULTS FOR VICINITY PROPERTY MDC-6 (RU12/CU141)

Confirmation soil samples were collected from Vicinity Property MDC-6 in accordance with the Confirmation Sampling Plan Details for Vicinity Property MDC No. 6 (DOE/OR/21548-631). A summary of the results and associated field activities is presented below. There were no deviations from the sampling plan. Additional information about MDC-6, including characterization results, can be found in the Close Out Report for Vicinity Properties MDC6 and MDC9 (DOE/OR/21548-775).

Vicinity Property MDC-6 was designated as Remedial Unit (RU) 12 and Confirmation Unit (CU) 141. During removal of Quarry bulk waste, MDC-6 was remediated. The initial walkover surveys for this vicinity property were conducted immediately after excavation, but no documentation could be found. Therefore, the gravel was removed in June 1996 and another walkover was conducted. The NaI detector (2x2) background reading was 3,500 CPM and was taken at the Weldon Spring Quarry telephone pole along Highway 94. The readings ranged between 3 to 6 K, with the majority being 3-4K. Walkover results were documented on the Radiation Survey Form.

Once the walkover was completed, the confirmation soil sampling locations were staked by the surveyors according to the sampling plan. Confirmation soil samples were collected at the 2 designated locations as designated in the sampling plan (Doc 631). Final results are summarized in Table 1.

Summary of Confirmation Results for RU12 (CU141) Table 1

			77777	CLEANUP
Parameter	Range	Average	ALARA	.
Parameter)	(pCi/g)	GOAL	CRITERIA
	(pCi/g)		5.0	6.2
Radium-226	1.11 - 1.29	1.2		6.2
Radium-228	0.43 - 1.05	0.74	5.0	
		1.94	5.0	6.2
Total Radium	1.72 - 2.16			6.2
Thorium-230	1.10 - 1.76	1.43	5.0	
	All results ND	NA	30	120
Uranium-238	ATT LEGULES IND	1-:		

PAGE 2: CONFIRMATION RESULTS FOR VICINITY PROPERTY MDC-6 (RU12/CU141)

These results met the cleanup standards as detailed in the Chemical Plant Area Cleanup Attainment Confirmation Plan (DOE/OR/21548-491). This CU was released as unrestricted on July 08, 1996. A copy of the disposition form, which includes results and a figure, has been attached.

Quality control samples for confirmation were collected in accordance with the Attainment Plan. Although there were no QC samples specifically associated with SC-14101-C and SC-14102-C, QC samples were collected during that week for overall confirmation sampling activities as detailed in the WP-420 Post Remedial Action Reports (DOE/OR/21548-666). QC results collected during this period met the DQRs.

ML/jn

Attachments: as stated

ES&H Manager Date Data Administration Mgr. Date

Ouarry Project Mgr. Date Engineering Manager Date

Mothy 1/2 PDC 5/1/99 Stun Doub 5/4/89
Quality Assyrance Mgr. Date Deputy Project Director Date

Distribution:

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Phil Cate
Marj Wesley
Phil Cate
Steve Warren
Eric Ripp

Weldon Spring Site Remedial Action Project 7295 Highway 94 South, St. Charles, Missouri, 63304

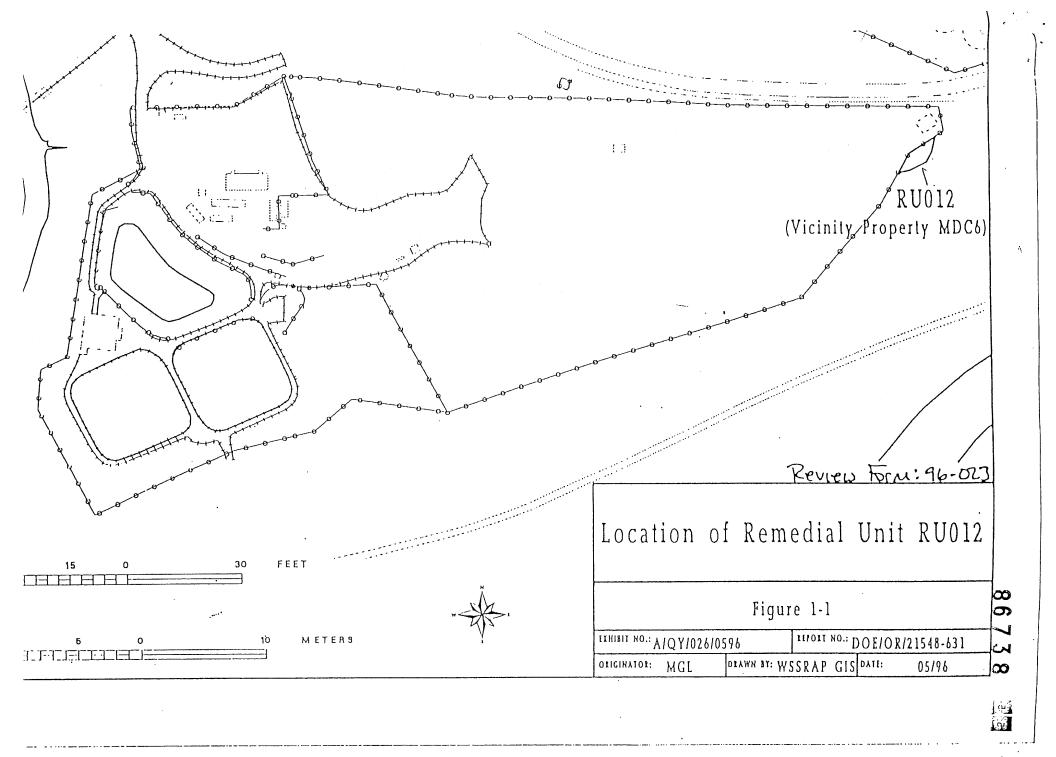
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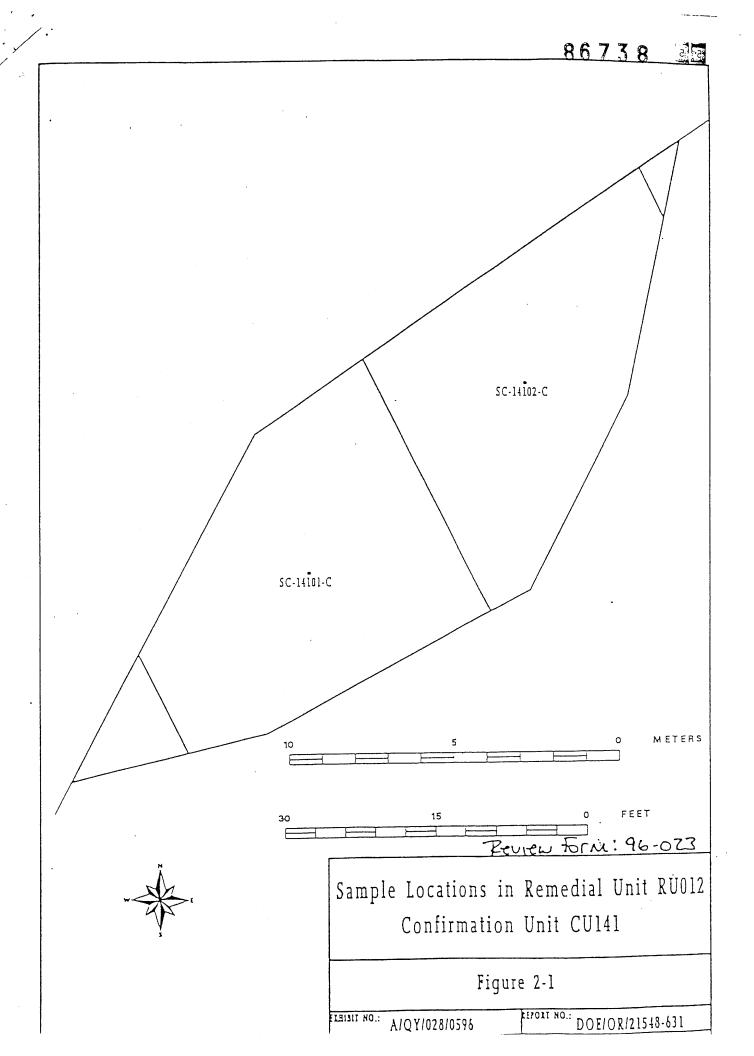
ES&H 1.2.1.1, Rev. 1, 03/96

SOIL CONFIRMATION REMEDIATION DISPOSITION FORM

Page 1 of 2

SECTION I	·					
1. Work Package Number: 2. Date: 7-7-96 3. Revi						
4. Remediation Unit Number: RUDIZ 5. Confirmation Unit Number: CUILI (map attached)						
6. Contaminants of Concern: X U-238 X Th-230 X Th-232 X TNT PCB PAH As Cr	Ra-226					
7. Results average below ALARA goal(s)?						
8. All results below cleanup criteria?						
9. Any results greater than 3X criteria?	Yes X No					
10. Hotspots present (less than 3X criteria)?	Yes X No					
Parameter Size Concentration	Complies with Plan?					
	YesNo					
	YesNo					
	YesNo					
	YesNo					
11. Reviewer: Mel H. Luty	Date: 7/2/96					
12. Reviewer Disposition Recommendation: Release for Unrestricted Use (Section II) Additional Excavation Required (Section IV) ALARA Committee Required (Section III)						
TARA Cilis released for unrestricted use.						
SECTION II Results are ALARA. CO & Teleused for amount	1 /					
14. ES&H Manager:	Date: 7/2/76					
\mathcal{A}	Date: $\frac{7/2/96}{}$					
15. DOE Project Manager/Engineer:	Date: 7-2-96					
16. Project Manager: Multi Value	Date: 1-8.96					
17. Construction Engineer: Date: 1000						





Confirmation Results for RU012CU141

Location ID	Parameter	Concen	Units	Lab Request
SC-14101-C	Uranium-238 Radium-226 Radium-228 Thorium-230	<3.21 1.77 0.64 1.10	pCi/g pCi/g pCi/g pCi/g	WP093 WP093 WP093 QT1406
SC-14102-C	Thorium-232 Uranium-238 Radium-226 Radium-228 Thorium-230 Thorium-232	0.66 <2.85 1.91 1.01 1.76 1.04	pCi/g pCi/g pCi/g pCi/g pCi/g pCi/g	WP093 WP093 WP093 WP093 QT1406 WP093

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